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Docket Number E-848  
Pitney Bowes Inc.  
35 Waterview Drive  
P.O. Box 3000  
Shelton, CT 06484-8000  
June 6, 2000



BOX PATENT APPLICATION  
ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of

Inventor: Robert A. Law

For: MESSAGING SYSTEM HAVING RECIPIENT PROFILING

Enclosed are:

Seventeen (17) pages comprising the specification, claims, and abstract.

Three (3) sheets of drawing.

A Declaration and Power of Attorney.

An Information Disclosure Statement.

A Recordation of Assignment Request and an Assignment of the invention to Pitney Bowes Incorporated, 1 Elmcroft Road, Stamford, Connecticut 06926-0700.

Certificate of Mailing by Express Mail. The number of the Express Mail label is EJ706018088US.

Fees calculated as follows:

Basic Fee						\$ 690.00
Claims Fee	Number Filed		Number Extra		Rate	
Total Claims	15	- 20 =	0	X	\$18.00	= \$ 0.00
Independent Claims	3	- 3 =	0	X	\$78.00	= \$ 0.00
Multiple Dependent Claims					\$260.00	= \$
Total Filing Fee						\$ 690.00

Please charge our Deposit Account Number **16-1885** in the amount of \$ 690.00 for the filing fee.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Account Number **16-1885**.

A copy of this Transmittal Letter is enclosed for use in charging the Deposit Account.

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent application of: ) Attorney Docket No.: E-848  
Robert A. Law ) Group Art Unit:  
Serial No.: ) Examiner:  
Filed: ) Date: June 6, 2000  
Title: MESSAGING SYSTEM HAVING RECIPIENT PROFILING

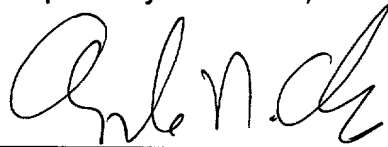
**CERTIFICATE OF MAILING BY EXPRESS MAIL**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the provisions of 37 CFR 1.10, I hereby certify that the attached seventeen (17) pages comprising the specification, claims and abstract, three (3) sheets of drawings, Declaration and Power of Attorney, Recordation of Assignment, Assignment, and Information Disclosure Statement with references was deposited with the U.S. Postal Service for delivery by Express Mail on June 6, 2000. The number of the Express Mail mailing label is EJ706018088US.

Respectfully submitted,



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009090 "E" 445960

**MESSAGING SYSTEM**  
**HAVING RECIPIENT PROFILING**

**Cross Reference to Related Applications**

This application is related to the following co-pending applications filed  
5 concurrently herewith and commonly assigned to the assignee of this application:  
US Patent Application Number aa/aaa,aaa, entitled RECIPIENT CONTROL  
OVER ASPECTS OF INCOMING MESSAGES (Attorney Docket No. F-126) and  
US Patent Application Number aa/aaa,aaa, entitled INFORMATION DELIVERY  
SYSTEM FOR PROVIDING SENDERS WITH A RECIPIENT'S MESSAGING  
10 PREFERENCES (Attorney Docket No. F-160), both of which are specifically  
incorporated herein by reference.

**Field of the Invention**

This invention relates generally to messaging systems. More particularly,  
in the preferred embodiments, this invention is directed to a system including a  
15 plurality of messaging systems that retain information pertaining to discrete  
messages and a processing system for gathering the discrete messages and  
developing a profile about a recipient of the messages.

**Background of the Invention**

In all types of businesses, access to robust and accurate information is  
20 often seen as a key component of success. Businesses are constantly striving to  
learn more about their marketplace, customers and competitors. Therefore,  
ready access to reliable information is highly desirable.

The messaging industry is very rich in terms of the quantity and quality of  
information. Examples of messaging systems are: postage printing systems,  
25 inserters, shipping and logistics systems, electronic mail and the like.  
Historically, information that is readily available in this industry has been under

utilized.

Therefore, there is a need for improvement in the collection and processing of information related to the messaging industry.

### **Summary of the Invention**

5       The present invention provides a system, method and data structure for improving the collection and processing of information related to the messaging industry. Generally, this is accomplished by collecting transaction data associated with the processing of messaging by a plurality of discrete messaging systems and organizing transaction data from the plurality of messaging systems  
10       corresponding to a selected recipient.

      In accordance with the present invention, there is provided an information system including a plurality of messaging systems, a data center and a control system. The plurality of messaging systems process respective messages intended for recipients. The data center is in operative communication with the  
15       plurality of messaging systems and stores transaction data associated with each respective message. The control system is in operative communication with the data center. The control system identifies selected transaction data from among the transaction data corresponding to a defined recipient and uses the selected  
20       transaction data to generate a recipient profile of messages intended for the defined recipient that have been processed by the plurality of messaging systems.

      In accordance with the present invention, a method of operating a data center and a data structure are also provided.

      Therefore, it is now apparent that the present invention substantially  
25       overcomes the disadvantages associated with the prior art. Additional advantages of the invention will be set forth in the description that follows, and in part will be obvious from the description, or may be learned by practice of the invention. The objects and advantages of the invention may be realized and obtained by means of the instrumentalities and combinations particularly pointed

out in the appended claims.

### **Brief Description of the Drawings**

The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate presently preferred embodiments of the invention, and together with the general description given above and the detailed description of the preferred embodiments given below, serve to explain the principles of the invention. As shown throughout the drawings, like reference numerals designate like or corresponding parts.

Fig. 1 is a simplified representation of an information system including a data center and a plurality of distributed messaging systems in electronic communication with the data center in which the present invention may be incorporated.

Fig. 2 is a schematic representation of a template for a sender profile describing a sender that operates a messaging system to process messages intended for a recipient in accordance with the present invention.

Fig. 3 is a schematic representation of a template for a recipient profile of a recipient of messages processed by various messaging systems in accordance with the present invention.

Fig. 4 is a routine for gathering and organizing data collected from the plurality of distributed messaging systems for use in developing the recipient profile in accordance with the present invention.

Fig. 5 is a routine for generating a recipient profile from the collected from the plurality of distributed messaging systems for use in drawing inferences about the recipient in accordance with the present invention.

### **Detailed Description of the Preferred Embodiments**

Referring to Fig. 1, an example of an information system 100 in which the present invention may be incorporated is shown. The information system includes a data center 110 in communication over any suitable communication

network 102 (LAN, WAN, telephone line, Internet, etc.) with a plurality of remotely located (geographically dispersed) messaging systems 150. The messaging systems 150 may include any device that is utilized by a sender (not shown) to produce a message (not shown) intended for a recipient (not shown). Examples  
5 of messaging systems are: a traditional postage meter 152, such as the Personal Post™ meter; an open system postage meter 154, such as the ClickStamp™ online postage system employing a personal computer 154a and a dot matrix (laser, ink jet, thermal transfer, etc.) printer 154b; and an inserter 156, such as the 8 Series™ inserting system; all available from Pitney Bowes of Stamford,  
10 Connecticut. Still other examples of messaging systems are shipping and logistics systems (not shown), addressing systems, such as the AddressRight™ system available from Pitney Bowes of Stamford, Connecticut, electronic mail (not shown) and the like. Because messaging systems are well know, there descriptions have been limited for the sake of brevity to only that which is  
15 necessary to provide suitable background for an understanding of the present invention.

Generally, it is anticipated that the messaging systems 150 would be located primarily in business offices and in private residences and used for a variety of purposes, including message creation, addressing, output generation  
20 and/or delivery. The data center 110 is maintained and operated by an administrative agency (not shown), such as the supplier of the messaging systems 150, and may communicate with the messaging systems 150 in a variety of different ways. Those skilled in the art will recognize that not each messaging system 150 need utilize the same type of communication network 102  
25 in contacting the data center 110. Furthermore, depending on the needs of each messaging system 150, the messaging systems 150 may or may not need full time access to the data center 110 to perform their respective tasks.

In conventional fashion, the messaging systems 150 are used by their respective operators to perform one or more of the steps in the messaging  
30 process (creation, addressing, output generation, delivery, etc.). For example,

the traditional postage meter 152 and the open system postage meter 154 may be used to apply a postal indicia (not shown) on an envelope (not shown) that contains a letter (not shown) for delivery to a recipient (not shown). The postal indicia typically includes at least date and postage value data. The inserter 156  
5 may be used to create, assemble, fold and/or insert a document (not shown) into an envelope (not shown) for subsequent delivery. Therefore, the inserter 156 may have information pertaining to the content of the envelope and the recipient of the envelope. In analogous fashion, the other types of messaging systems 150 all have access to various data about the messages that they process.  
10 Those skilled in the art will appreciate that the types of data available is quite varied and ever increasing as newer more intelligent products are being introduced.

Referring to Fig. 2, in view of the structures of Fig. 1, a sender profile template 200 describing a sender (not shown) that operates a messaging system  
15 150 to process messages intended for a recipient (not shown) is shown. The administrative agency establishes a sender profile 200 for each sender (owner, operator, etc.) utilizing a single messaging system 150 or a group of messaging systems 150. The sender profile 200 may be established at any convenient time, such as installation of the first messaging system 150 from the administrative  
20 agency. The sender profile 200 may be stored in the data center 110 in a sender profiles database 112 and includes sender account identification data 202, sender name data 204, sender address data 206, sender classification data 208 and sender transaction data 210. The sender identification data 202 may be an account name, account number or any identifying information that differentiates  
25 one message sender from another. The sender name data 204 includes information about the entity's name that is using the messaging system 150. The sender address data 206 includes information about a physical or e-mail address for billing and/or other contact purposes. The sender classification data 208 includes information about what type of industry segment best describes the  
30 sender's activities. This may be commercial, residential or some combination of

both. One system for available for use with respect to the sender classification data 208 is the Standard Industry Code (SIC) system that assigns SIC numbers for a variety of well known industry segments. As examples, automobile rental companies would be assigned a SIC number in the range of 2100 to 2199, while  
5 automobile dealerships would be assigned a SIC number in the range of 2400-2499 and service stations would be assigned a SIC number in the range of 4000 to 4099. Still other SIC numbers exist for financial institutions, health care providers, legal service providers, professional associations, utility service providers, governmental agencies and a variety of other industry segments. The  
10 sender transaction data 210 includes information collected by the sender's messaging system 150 related to the various messages that have been processed by the sender's messaging system 150. In the preferred embodiment, a transaction record (not shown) will be created for each message that includes all the information available concerning the processing (creation, addressing,  
15 output generation, delivery, etc.) of the message.

Referring to Fig. 3, in view of the structures of Fig. 1, a recipient profile template 300 describing a recipient (not shown) that receives messages processed by the messaging systems 150 to process messages intended for a recipient (not shown) is shown. The administrative agency establishes a  
20 recipient profile 300 at any convenient time, such as: a request for information about the recipient or some other predetermined event. The recipient profile 300 may be stored in the data center 110 in a recipient profiles database 114 and includes recipient identification data 302, a total number of messages received 304, segmentation data (matrix, table, statistical sampling, etc.) 306 of the types  
25 and distribution of senders that originated those messages and inference data 308. The recipient may be classified as an individual, an address (as if for a household) or business name, the recipient identification data 302 may be an individual person's name, a residential address, a commercial address or a business name. The recipient identification data 302 is purely dependent upon  
30 about what type of entity information is sought. The total number of messages



received 304 is simply a total of the number of messages received by the defined recipient over any selectable period of time. Using the sender classification data 208 and/or the transaction data 210 described above, the segmentation data 306 breaks down the total of the number of messages received 304 and organizes  
5 them into categories, such as by industry segment, depending on what type of entity sent the message (who the sender is) and/or what type of message was sent (letter, package, e-mail, catalog, special delivery). This segmentation data 306 may be further analyzed as described in greater detail below to develop the inference data 308 also described in greater detail below.

10 With the structure of the information system 100 described as above, the operational characteristics will now be described with respect to how transaction data 210 is obtained and recipient profiles 300 are generated. Referring primarily to Fig. 4 while referencing the structure of Figs. 1, 2 and 3, a flow chart of a transaction routine 400 in accordance with the present invention is shown.

15 Generally, the transaction routine 400 obtains transaction information from the messaging system 150 and associates it with a corresponding sender profile 200.

At 402, the transaction routine 400 commences when a messaging  
20 system 150 begins to process a message. As described above, depending on the type of messaging system 150 being employed, the message processing may involve a variety of functions. Next, at 404, a transaction record (not shown) is generated that reflects the all information available concerning the processing (creation, addressing, output generation, delivery, etc.) of the message. Here again, depending on the type of messaging system 150 being employed, the  
25 transaction record may include a variety of different information. For example, a transaction from a postage metering system 154 may include: date, sender, recipient name, recipient address, postage amount, special services (insurance, return receipt request, etc.) and the like. Those skilled in the art will now appreciate that the transaction record may contain as much information as if  
30 available from the messaging system 150. Next, at 406, the transaction record is

associated with the sender by storing it in the transaction data 210 for a particular sender profile 200 corresponding to the sender. Depending on the type of messaging system 150, the storage of the transaction record into the transaction data 210 may occur as part of the messaging process if the messaging system  
5 150 is in communication with the data center 110 or occur during a subsequent communication session between the messaging system 150 and the data center 110. Those skilled in the art will now appreciate that over a period of time the transaction data 210 contains a log of transaction records associated with the various messages processed by the senders' various messaging systems 150.  
10 Furthermore, a plurality of sender profiles 200 are eventually established at the data center 110 where each sender profile 200 contain respective transaction data 210 indicative of its message processing activities.

With the transaction routine 400 described as above, the utilization of the transaction data 210 that has been collected will now be described. Referring  
15 primarily to Fig. 5 while referencing the structure of Figs. 1, 2 and 3 and the flow chart of Fig. 4, a flow chart of a recipient profiling routine 500 in accordance with the present invention is shown. Generally, the recipient profiling routine 500 is run at the data center 110 and obtains transaction data 210 from each of the plurality of sender profiles 200 that related to a selected recipient.

20 At 502, the recipient profiling routine 500 commences when a selected recipient is defined. The recipient may be defined according to what type of entity information is sought. The recipient may be defined as an individual, a residential address (to obtain entire household information), a business name or a business address, any combination of these identifiers or some other desired  
25 entity. This recipient definition serves as the recipient identification data 302 in the recipient profile 300. Next, at 504, the transaction data 210 from each of the sender profiles 200 containing the log of respective transaction records associated with the various messages processed by the senders' various messaging systems 150 is searched. Next, at 506, any relevant transaction  
30 records that meet the recipient definition are identified. Next, at 508, the relevant

transaction records are used to generate the segmentation data 306 for a selected recipient profile 300. As discussed above, the selected recipient profile 300 provides useful insight into the messaging characteristics of the recipient by revealing various information about the defined recipient's incoming messaging activity, such as: the types of senders (financial, medical, utility, retailer, automotive, professional association, etc.) that communicate with the recipient, the frequency (weekly, monthly, quarterly, randomly, etc.) of those communications and the types of messages (1<sup>st</sup> class mail, bulk rate mail, priority mail, e-mail, package, etc.).

Those skilled in the art will recognize that various modifications can be made to the recipient profiling routine 500 described above. For example, in the alternative, an entity may be defined according to the amount of messages received, the type of messages received, the type of senders or any combination thereof. The recipient definition may seek any recipient receiving more than a given number of messages from a financial institution over a given time period. In this example, several recipients may meet the definition. In this case, a recipient profile 300 is developed for each qualifying recipient.

Referring to Figs. 1-5, potential uses for the generated recipient profile 300 will now be described. Generally, the segmentation data 306 is utilized to develop inferences about the recipient. For example, if the defined recipient is an individual, then inferences (informed guesses) as to the recipient's characteristics, preferences and interests may be made. A recipient's characteristics may include: financial status, health status, employment status, religious affiliation, family status, immutable characteristics (age, gender, ethnicity, etc.) and the like. To the extent practicable, the inferences may be developed by an expert system or other form of artificial intelligence executed by the data center 110 or even a human being.

Inferences may be drawn in a variety of different ways. To provide demonstrative illustrations, a discussion of several of the sample characteristics identified above will be provided. A recipient that receives many messages (i.e.

statements) from a large number of brokerage firms, mutual fund companies and the like is more likely to have a higher net worth (due to an increased number of financial assets) than a recipient that receives no such messages. A recipient that receives many messages (i.e. statements/bills/reports) from a large number of health care providers is more likely to have a medical condition requiring treatment than a recipient that receives no such messages. A recipient that receives recurring messages from governmental support agencies (social security, unemployment compensation, food stamps, etc.) has a lower chance of being steadily employed than a recipient that receives no such messages. This may also contribute to the financial status inference. Recurring messages from a particular organization may indicate that the recipient is affiliated with the organization. Those affiliations can provide insight as to various recipient characteristics. As examples, recurring messages from Our Lady of Sacred Heart Church may indicate that the recipient is catholic; recurring messages from the National Association of Retired Persons (NARP) may indicate that the recipient is over the age of fifty-five (55) and retired; recurring messages from the Parent Teachers Association (PTA) or a public/private school may indicate that the recipient has school age children; recurring messages from professional associations (American Bar Association) may indicate an interest (law) and/or occupation (attorney) of the recipient. Those skilled in the art will recognize that countless other examples exist for each of the demonstrative characteristics described above.

Inferences may also be drawn as to the recipient's messaging preferences. Generally, a recipient's messaging preferences may include: desired type of message (physical mail, e-mail, etc.) and frequency of receipt of recurring messages. To provide demonstrative illustrations, a discussion of the preferences identified above will be provided. A recipient that receives all messages in physical form is more likely to preference physical messages than a recipient that receive a large percentage of messages in electronic form. Recurring messages, such as statements, from a various senders that are all

received on a monthly basis may indicate a preference for monthly updates as opposed to quarterly or annual updates. Those skilled in the art will recognize that still other opportunities to draw inferences exist.

Inferences may also be drawn as to the recipient's interests (hobby, vocation, etc.). Generally, a recipient's messages provide insight into the subject matter areas that occupy the recipient's time. To provide demonstrative illustrations, a discussion of several examples revealing how interests may be inferred will be provided. A recipient that receives a variety of seed and nursery catalogs from different senders is likely to be interested in gardening. A recipient that receives numerous account transaction statements may be interested in investing. A recipient that receives recurring messages from the National Rifle Association (NRA) may be interested in firearms, target shooting and the like. Here again, those skilled in the art will recognize that still other opportunities to draw inferences exist.

Once the inferences have been drawn, the recipient profile 300 is updated by storing the inferences in the inference data 308. In this manner, the searching and analyzing of transaction records need not be performed each time information is sought about the recipient. However, the searched should be conducted periodically to ensure that the no changes have occurred and the inferences are still valid.

Based on the above description and the associated drawings, it should now be apparent that the present invention improves the collection and processing of information related to the messaging industry. By gaining a better understanding of the recipient, the industry can provide better service and bring items of interest to the attention of the recipient more efficiently through targeted advertising. Once the inferences are drawn, they may be put to use by industry in a variety of different ways to allow industry to communicate more effectively with the recipient.

Many features of the preferred embodiment represent design choices selected to best exploit the inventive concept as implemented in a particular

5 messaging environment as pertaining to individual private recipients. However,  
those skilled in the art will recognize that various modifications can be made  
without departing from the spirit of the present invention to adapt the concepts of  
the present invention to address situations where the recipient is a business. For  
10 example, a wide variety of database management tools exist that can facilitate  
the collection of the transaction records and the generation of the recipient  
profiles. The exact manner in which these activities occur is subject to great  
variation due to practical design choices of the hardware, software,  
communications and data involved. As another example, the recipient profiles  
10 300 need not be generated in response to a request for information about a  
particular recipient. Alternatively, a recipient profile 300 could be generated at  
any predetermined event, such as: automatically for each recipient or after a  
recipient have received a given number of messages.

15 Therefore, the inventive concept in its broader aspects is not limited to the  
specific details of the preferred embodiments described above, but is defined by  
the appended claims and their equivalents.

**What is Claimed is:**

1. A system, comprising:
  - a plurality of messaging systems for processing respective messages intended for recipients;
  - a data center in operative communication with the plurality of messaging systems for storing transaction data associated with each respective message;
  - a control system in operative communication with the data center for:
    - identifying selected transaction data from among the transaction data corresponding to a defined recipient; and
    - using the selected transaction data to generate a recipient profile of messages intended for the defined recipient that have been processed by the plurality of messaging systems.
2. The system of claim 1, wherein:
  - the recipient profile includes segmentation information developed from the selected transaction data that organizes the messages intended for the defined recipient into categories.
3. The system of claim 2, wherein:
  - the control system is further for:
    - using the segmentation information to develop inferences about the defined recipient in the recipient profile.
4. The system of claim 3, wherein:
  - the plurality of messaging systems are operated by respective senders;
  - each respective sender has associated classification data indicating an industry segment that describes the respective sender's activities; and
  - the control system is further for:

using the sender classification data to store an indication in the recipient profile of types of senders that originated the messages intended for the defined recipient.

5. The system of claim 4, wherein:  
the inferences are developed from the sender classification data and may include one or more of the following insights: characteristics, preferences and interests of the defined recipient.
6. A method of operating a data center, the method comprising the step(s) of:  
communicating with a plurality of messaging systems, the messaging systems for processing respective messages intended for recipients;  
storing transaction data associated with each respective message;  
identifying selected transaction data from among the transaction data corresponding to a defined recipient; and  
using the selected transaction data to generate a recipient profile of messages intended for the defined recipient that have been processed by the plurality of messaging systems.
7. The method of claim 6, further comprising the step(s) of:  
using the selected transaction data to generate segmentation information that organizes the messages intended for the defined recipient into categories.
8. The method of claim 7, further comprising the step(s) of:  
using the segmentation information to develop inferences about the defined recipient in the recipient profile.
9. The method of claim 8, wherein:



the plurality of messaging systems are operated by respective senders;  
and  
each respective sender has associated classification data indicating an  
industry segment that describes the sender's activities; and  
further comprising the step(s) of:  
using the sender classification data to store an indication in the  
recipient profile of types of senders that originated the  
messages intended for the defined recipient.

10. The method of claim 9, wherein:  
the inferences are developed from the sender classification data and may  
include one or more of the following insights: characteristics,  
preferences and interests of the defined recipient.
11. A memory system accessible by an application program being executed  
on a data processing system, comprising:  
transaction data associated with a plurality of messages, the transaction  
data representative of respective messages processed by a plurality of  
messaging systems;  
selected transaction data from among the transaction data corresponding  
to a defined recipient; and  
recipient profile data corresponding to the selected transaction data from  
messages intended for the defined recipient that have been processed  
by the plurality of messaging systems.
12. The memory system of claim 11, further comprising:  
segmentation data developed from the selected transaction data that  
organizes the messages intended for the defined recipient into  
categories.

13. The memory system of claim 12, further comprising:  
inference data about the defined recipient developed from the  
segmentation data.
14. The memory system of claim 13, further comprising:  
classification data, associated with respective senders that operate the  
plurality of messaging systems, indicating an industry segment that  
describes the respective senders' activities; and  
an indication in the recipient profile, based on the classification data, of  
types of respective senders that originated the messages intended for  
the defined recipient.
15. The memory system of claim 14, wherein:  
the inference data is developed from the classification data and may  
include one or more of the following insights: characteristics,  
preferences and interests of the defined recipient.

**MESSAGING SYSTEM**  
**HAVING RECIPIENT PROFILING**

**Abstract of the Invention**

An information system includes a plurality of messaging systems, a data  
5 center and a control system. The plurality of messaging systems process  
respective messages intended for recipients. The data center is in operative  
communication with the plurality of messaging systems and stores transaction  
data associated with each respective message. The control system is in  
operative communication with the data center. The control system identifies  
10 selected transaction data from among the transaction data corresponding to a  
defined recipient and uses the selected transaction data to generate a recipient  
profile of messages intended for the defined recipient that have been processed  
by the plurality of messaging systems.

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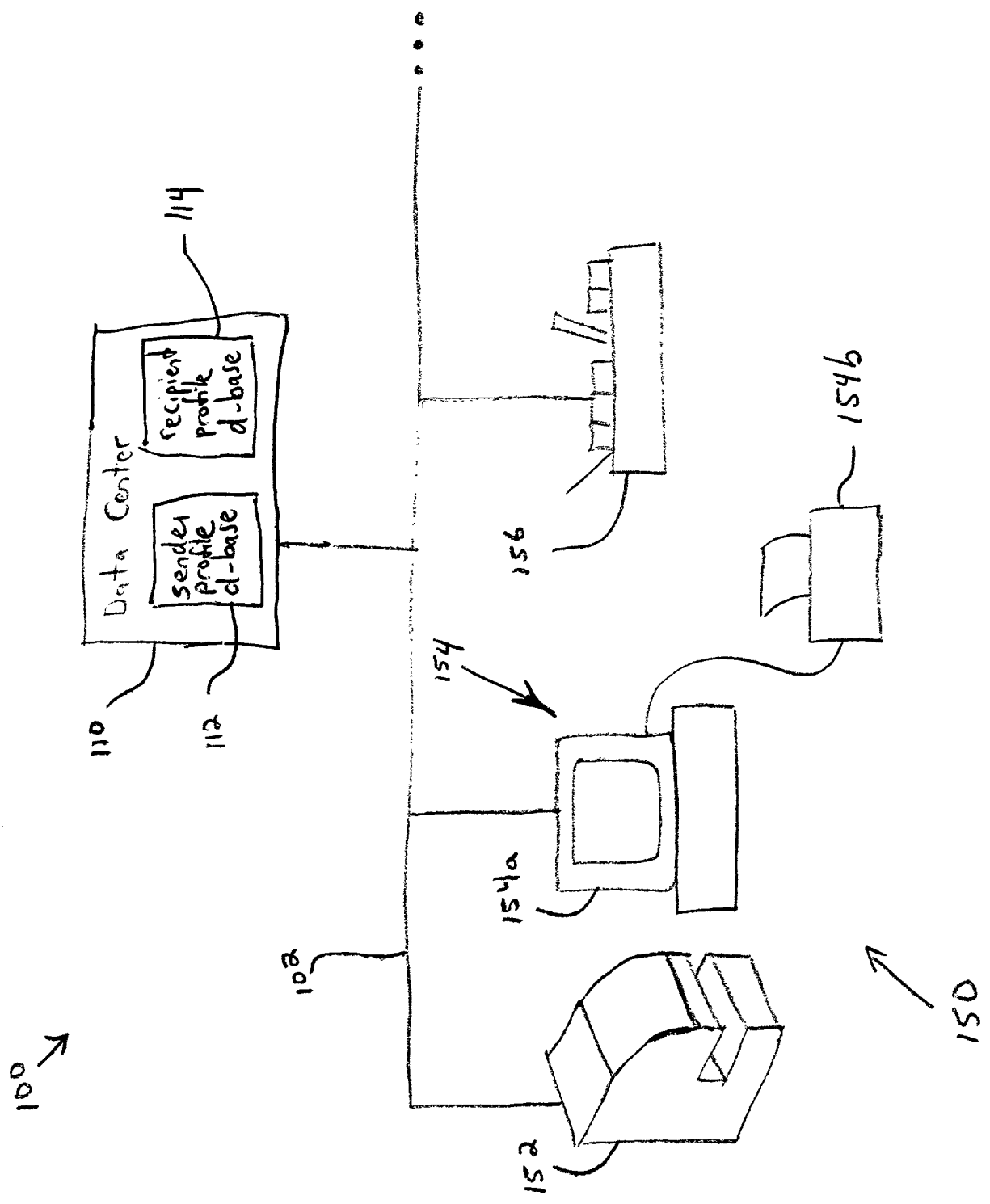


Fig. 1

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2-3

200  
↓

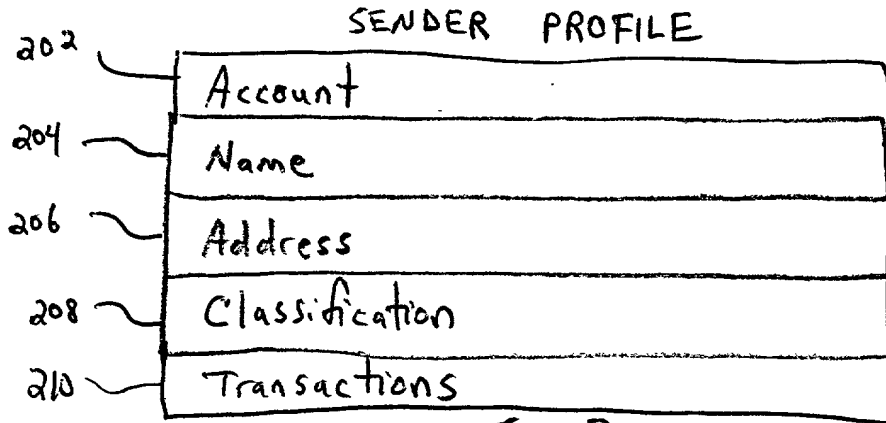


Fig. 2

300  
↓

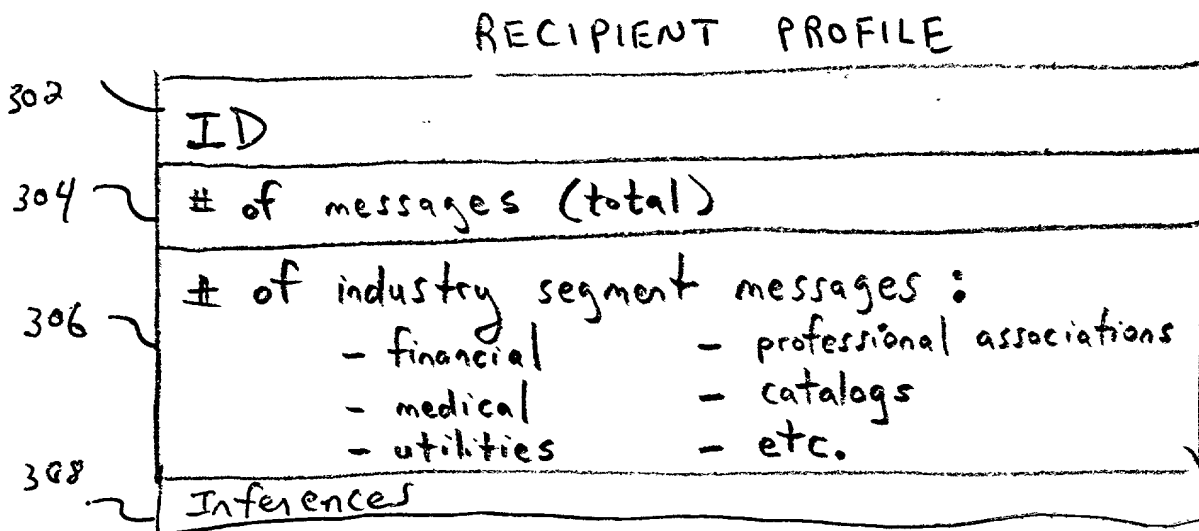


Fig. 3

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3-3

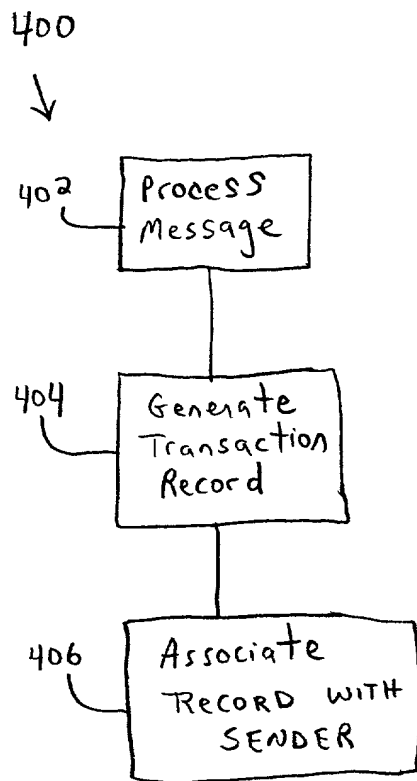


Fig. 4

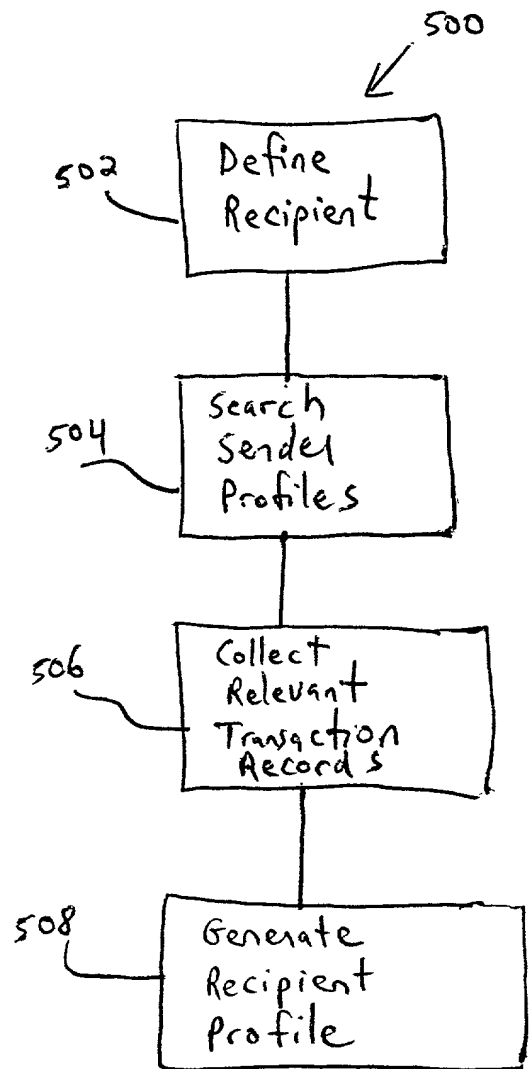



Fig. 5

DECLARATION AND POWER OF ATTORNEY Patent Application		Attorney's Docket Number E-848								
		Page 1 of 2								
<p>As below named inventor, I hereby declare that:</p> <p>my residence, post office address and citizenship are as stated below next to my name;</p> <p>I believe that I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled</p> <p style="text-align: center;"><b>MESSAGING SYSTEM HAVING RECIPIENT PROFILING</b></p> <p>described and claimed in the attached specification;</p> <p>I have reviewed and understand the contents of the above-identified specification, including the claims;</p> <p>I acknowledge my duty to disclose to the Patent and Trademark Office all information known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, section 1.56; and</p> <p>I do not know and do not believe the invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application, that the invention was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns.</p> <p>I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith;</p> <table><tbody><tr><td>Angelo N. Chaclos</td><td>Reg. No. 39,134</td></tr><tr><td>Michael E. Melton</td><td>Reg. No. 32,276</td></tr><tr><td>David E. Pitchenik</td><td>Reg. No. 24,020</td></tr><tr><td>Robert E. Meyer</td><td>Reg. No. 26,307</td></tr></tbody></table>			Angelo N. Chaclos	Reg. No. 39,134	Michael E. Melton	Reg. No. 32,276	David E. Pitchenik	Reg. No. 24,020	Robert E. Meyer	Reg. No. 26,307
Angelo N. Chaclos	Reg. No. 39,134									
Michael E. Melton	Reg. No. 32,276									
David E. Pitchenik	Reg. No. 24,020									
Robert E. Meyer	Reg. No. 26,307									

## Page 2 of 2

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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<b>Signature of Inventor</b> 			<b>Date</b> 6-6-00